



CV

A) Personal and contact details

Surname: **Rehmat**

First name: **Shagufta**

Date and place of Birth: **9th August 1995, Chitral, Pakistan**

Researcher ID, if applicable: **0000-0003-3747-7171**

Date of the CV: **17th June 2022**

B) Education/Degrees

Masters

Date of awarding of the degree certificate : **12th November 2018**

Research discipline : **Cancer Research**

Degree title: **MS-Biomedical Sciences**

Name of the educational institution and faculty/department: **Department of Biomedical Engineering and Sciences, School of Mechanical and Manufacturing Engineering, National University of Science and Technology**

Country where the degree was completed: **Pakistan**

Major subjects of study/degree programme: **Biomedical Instrumentation, Human Physiology and Anatomy, Medical Genetics, Cancer Cytogenetics, Advance Biomaterial, Signals and Images in Medicine**

Score: **3.95/4 cGPA**

Supervisor/tutor name and contact details: **Dr. Adeeb Shehzad, Assistant Professor,**
adeeb.shehzad@smme.nust.edu.pk

Bachelors

Date of awarding of the degree certificate : **6th August 2016**

Research discipline : **Microbiology**

Degree title: **Bachelors studies in Microbiology**

Name of the educational institution and faculty/department: **Centre of Biotechnology and Microbiology, University of Peshawar**

Country where the degree was completed: **Pakistan**

Major subjects of study/degree programme: **Biochemistry, Environmental Microbiology, Math, Medical Microbiology, Ecology, Cell Biology, Immunology, Principles of Genetics, Virology, Bioinformatics, Microbial diversity, Molecular Mechanisms of Gene Expression**

Score: **3.8/4 cGPA**

Supervisor/tutor name and contact details: **Dr. Kafeel Ahmed,** kafeelpbg@upesh.edu.pk,
kafeelpbg@gmail.com



C) Other Education, qualifications and/or supplementary training

NA

D) Current employment

Currently employed at Aga Khan University

Start date of employment: **28th March, 2022**

Job title: **Research Associate**

Employer name, contact details and place of work: **Dr. Afsar Mian, Aga Khan University, Center for Regenerative and Stem cell Research. Karachi Pakistan, Email: afsar.mian@aku.edu**

Short description of your role and main responsibilities: Working on B-thalassemia and Sickle Cell Anemia project and participating in the following: G-Banding, Karyotyping (Using Meta System), PCR, Western blotting, Cell culture

Stage /years to be counted for research career: Less than 1 year

E) Previous work experience

Previous employed at Precision Medicine Lab

Start date of employment: **18th February, 2019**

Job title: **Research Assistant III:** (July 2021- March 2022), **Research Assistant II:** (May 2020- July 2021), **Communications Specialist:** (February 2019- May 2020)

Employer name, contact details and place of work: **Dr. Faisal, Khan, CECOS-RMI Precision Medicine Lab, Peshawar Pakistan. Email: faisal@cecos.edu.pk**

Short description of your role and main responsibilities:

As a Research Assistant III:

- Co-Lead wearable study (study design and execution)
- Lead the COVID -19 host genetic study (study design, ethical approvals, patient data collection, study documentation, sample collection, sample processing)
- Mentored a high school intern in an in-silico study on “Interaction of tobacco metabolites and cancer-causing genes”
- Mentored an MS student in his research on a “survey amongst health care providers focusing on their complications and quality of life”
- Lead journal club at the Lab
- Assisted Principal Investigator in applying for three grants in 2021 (two Local Challenge Fund grants and one HOPE Foundation grant)
- Played my role in IRB approvals and study documentation in other projects where required.
- Lead PML Hackathons (ideation events for startups)

As a Research Assistant II:

- Lead the COVID-19 host genetic study (study design and execution)
- Conducted survey-based research on exposure to secondhand smoke
- Participated in designing and conducting a survey on genomic literacy among medical practitioners
- Mentored a high school intern in conducting in-silico research on “actionable mutations in breast cancer”
- Participated in weekly journal clubs

As a Communications Specialist:

- Managed official social media accounts by audience engagement and social listening
- Content creation for social media, and website which includes writing blogs, and designing posters
- Created unified messaging of public relations efforts in conjunction with advertising campaigns by working closely with marketing peers
- Organized seminars and workshops

Stage /years to be counted for research career: 3 years and 2 months

Career /study breaks (if any): N/A

Dates (from-to)	Reason

G) Language skills

Mother tongue	Khowar				
Other language(s)	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
Urdu	Excellent	Excellent	Fluent	Fluent	Excellent
English	Excellent	Excellent	Fluent	Fluent	Excellent
Pushto	Excellent	Poor	Working	Working	Poor

H) Any scientific publications or published book?

- Shehzad, Adeeb, **Shagufta Rehmat**, Salman Ul-Islam, Rizwan Ahmad, Meneerah Aljafary, Noor A. Alrushaid, and Ebtessam A. Al-Suhaimi. "Lirioresinol B dimethyl ether inhibits NF-κB and COX-2 and activates IκBα expression in CCl4-induced hepatic fibrosis." BMC complementary medicine and therapies 20, no. 1 (2020): 1-9.
- **Shagufta Rehmat**, Faisal F. Khan. A pilot study to survey the exposure to secondhand smoke at home and at the workplace in Pakistan [abstract]. In: Proceedings of the American Association for Cancer Research Annual Meeting 2022; 2022 Apr 8-13. Philadelphia (PA): AACR; Cancer Res 2022;82(12_Suppl):Abstract nr 6263.
- Madina Barakzai, **Shagufta Rehmat**, Faisal F. Khan. Assessing genomic literacy among medical trainees and practitioners in Pakistan [abstract]. In: Proceedings of the American Association for Cancer Research Annual Meeting 2022; 2022 Apr 8-13. Philadelphia (PA): AACR; Cancer Res 2022;82(12_Suppl):Abstract nr 6337

I) Communication skills

Active listing, scientific writing, informal writing, clarity, public speaking, oral and poster presentation skills, sense of art and design

J) Organisational/managerial/Team leadership skills



- Working voluntarily as National Secretary with AKYSBP National Girls Guide team (2020-present). We organize various in-person and virtual activities for young girls and women (age 6-35) to help them be well equipped to better contribute to society.
- Part of United Nations initiative on Plastic as an Advocacy Champion, 2022.
- Organized Sustainable Development Goals Summit for Girls Gide (age group 16-24), January 2019 (Voluntary).
- Conducted workshop on Cancer Biology at Precision Medicine Lab, April 2021.
- Engaged senior citizens and differently-abled kids during COVID in various activities i.e., virtual seminars, open mic, trivia quizzes, etc., February 2020-June 2021 (Voluntary)
- University Ambassador for Shaukat Khanum Memorial Cancer Hospital, 2013-2015 (Voluntary)

K) Any international experience, including presentations at international conferences, or any other mobility period

- Virtual poster presentation at AACR Annual Meeting 2022, April 2022
- Virtual poster presentation at TransMed meeting at Intelligent Systems for Molecular Biology/European Conference on Computational Biology; Jul 25-30, 2021 (Authors: Hammad, Shagufta Rehmat, Faisal Khan)

L) Prizes/awards or other societal merits and honours (if any)

- Best poster award at TransMed meeting at the ISMB/ECCB 2021 conference (2021)
- Awarded with the 'Going the Extra Mile Award' by Precision Medicine Lab (2021)
- Provisional award of ICT endowment fund merit-based scholarship during MS (2017)
- Ambassador of the year award at Shaukat Khanum Memorial Cancer Hospital and Research Center (2015)

M) Methods, software, infrastructures, materials, guides and tools developed or published (if any)
N/A